

ABSTRACT

A novel electric internal gear pump integrated with motor is provided which has a relatively compact structure adapted for stable support of a main shaft.

The pump includes: a rotor portion 4 having an outer rotor 25 and an inner rotor 26; an electric motor portion 3 for driving the inner rotor 26 into rotation; and a main shaft 5 including a drive shaft of the electric motor portion and a rotary shaft of the inner rotor 26, the drive shaft and rotary shaft formed coaxially and integrally. The main shaft 5 is supported only by a first bearing 10 and a second bearing 16 on axially opposite sides thereof. The rotor portion 4 is interposed between the bearings 10, 16.